

AMENDMENTS TO THE CLAIMS

1. (Canceled)
2. (Canceled)
3. (Canceled)
4. (Canceled)
5. (Canceled)
6. (Canceled).
7. (Currently Amended) ~~The apparatus of claim 6;~~ A blood pressure measurement apparatus configured to operate according to an oscillometric method of measuring blood pressure, comprising:
 - an inflatable chamber, said inflatable chamber operable to be inflated during an inflation interval and deflated during a deflation interval;
 - a sensor coupled to said inflatable chamber, said sensor configured to measure a signal according to the oscillometric method of measuring blood pressure, said signal comprising information indicative of a blood pressure of a vertebrate;
 - a control module configured to receive as input at least a portion of said signal from said sensor, and to generate as output a control signal having a selected one of a plurality of values responsive to said input;
 - a first analysis module, said first analysis module configured to analyze said signal during said inflation interval of said inflatable chamber at a rate greater than 3 mmHg per second before said inflatable chamber is fully inflated to extract from said signal a systolic blood pressure and a diastolic blood

pressure of said vertebrae according to the oscillometric method of measuring blood pressure;

a second analysis module, said second analysis module selectively operative in response to one of said plurality of values of said control signal, said second analysis module configured to analyze said signal during said deflation interval of said inflatable chamber to extract from said signal said blood pressure of said vertebrae according to the oscillometric method of measuring blood pressure; and

a neonate sensor module configured to represent whether said vertebrae is a neonate vertebrae;

wherein in response to a positive determination that said vertebrae is a neonate vertebrae, said apparatus completes a blood pressure measurement of said neonate vertebrae using said second analysis module.

8. (Original) The apparatus of claim 7, wherein said signal analyzed by said second analysis module during said deflation interval comprises a signal occurring during at least one step deflation interval.
9. (Original) The apparatus of claim 7, wherein said blood pressure of said neonate vertebrae comprises at least one of a systolic blood pressure and a diastolic blood pressure.
10. (Original) The apparatus of claim 9, further comprising a reporting module configured to report at least one of said systolic blood pressure and said diastolic blood pressure.
11. (Canceled)
12. (Canceled)

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13. (Canceled)

14. (Canceled)

15. (Canceled)

16. (Canceled)

17. (Canceled)

18. (Canceled)

19. (Canceled)

20. (Canceled)

21. (Canceled)

22. (Canceled)

23. (Canceled)

Claim 24. (Currently Amended) ~~The apparatus of claim 23,~~ A blood pressure measurement apparatus configured to operate according to an oscillometric method of measuring blood pressure, comprising:

an inflatable chamber, said inflatable chamber operable to be inflated during an inflation interval and deflated during a deflation interval;

a sensor coupled to said inflatable chamber, said sensor configured to measure a signal according to the oscillometric method of measuring blood pressure, said

signal comprising information indicative of a blood pressure of a vertebrae;
a control module configured to receive as input at least a portion of said signal
from said sensor, and to generate as output a control signal having a selected
one of a plurality of values responsive to said input;
a first analysis module, said first analysis module configured to analyze said
signal during said inflation interval of said inflatable chamber at a rate greater
than 3 mmHg per second before said inflatable chamber is fully inflated to
extract from said signal a systolic blood pressure and a diastolic blood
pressure of said vertebrae according to the oscillometric method of measuring
blood pressure;
a second analysis module, said second analysis module selectively operative in
response to one of said plurality of values of said control signal, said second
analysis module configured to analyze said signal during said deflation
interval of said inflatable chamber to extract from said signal said blood
pressure of said vertebrae according to the oscillometric method of measuring
blood pressure;
a motion detection module configured to receive as input at least a portion of said
signal from said sensor, said motion detection module configured to detect a
secondary motion of said vertebrae distinct from motion associated with said
signal comprising information indicative of a blood pressure of a vertebrae
and configured to communicate a value to said first analysis module; and
a neonate sensor module configured to represent whether said vertebrae is a
neonate vertebrae;
whereby, in the event that said value of said secondary motion detected by said
detection module is below a predetermined value, said apparatus completes a
blood pressure measurement of said vertebrae using said first analysis
module; and
wherein in response to a positive determination that said vertebrae is a neonate
vertebrae, said apparatus completes said blood pressure measurement of said

neonate vertebrate using said second analysis module.

25. (Canceled)

Claim 26. (Currently Amended) The apparatus of claim 23, further comprising A blood pressure measurement apparatus configured to operate according to an oscillometric method of measuring blood pressure, comprising:

- an inflatable chamber, said inflatable chamber operable to be inflated during an inflation interval and deflated during a deflation interval;
- a sensor coupled to said inflatable chamber, said sensor configured to measure a signal according to the oscillometric method of measuring blood pressure, said signal comprising information indicative of a blood pressure of a vertebrate;
- a control module configured to receive as input at least a portion of said signal from said sensor, and to generate as output a control signal having a selected one of a plurality of values responsive to said input;
- a first analysis module, said first analysis module configured to analyze said signal during said inflation interval of said inflatable chamber at a rate greater than 3 mmHg per second before said inflatable chamber is fully inflated to extract from said signal a systolic blood pressure and a diastolic blood pressure of said vertebrate according to the oscillometric method of measuring blood pressure;
- a second analysis module, said second analysis module selectively operative in response to one of said plurality of values of said control signal, said second analysis module configured to analyze said signal during said deflation interval of said inflatable chamber to extract from said signal said blood pressure of said vertebrate according to the oscillometric method of measuring blood pressure;
- a motion detection module configured to receive as input at least a portion of said signal from said sensor, said motion detection module configured to detect a

secondary motion of said vertebrate distinct from motion associated with said signal comprising information indicative of a blood pressure of a vertebrate and configured to communicate a value to said first analysis module;
a neonate sensor module configured to represent whether said vertebrate is a neonate vertebrate; and
a reporting module configured to report at least one of said systolic blood pressure and said diastolic blood pressure;
whereby said apparatus completes said measurement of said blood pressure of said vertebrate using at least one of said first analysis module and said second analysis module; and
whereby, in the event that said value of said secondary motion detected by said detection module is below a predetermined value, said apparatus completes a blood pressure measurement of said vertebrate using said first analysis module.

- 27. (Canceled)
- 28. (Canceled)
- 29. (Canceled)
- 30. (Canceled)
- 31. (Canceled).

Claim 32. (Currently Amended) The method of claim 31, An oscillometric blood pressure measurement method, comprising the steps of:
providing an inflatable chamber, said inflatable chamber operable to be inflated during an inflation interval and deflated during a deflation interval;

measuring a signal comprising information indicative of a blood pressure of a vertebrae, said signal generated according to an oscillometric blood pressure measurement method;
analyzing said signal during an inflation of said inflatable chamber at a rate greater than 3 mmHg per second before said inflatable chamber is fully inflated to extract from said signal a systolic blood pressure and a diastolic blood pressure of said vertebrae;
if necessary, responsive to a control signal, analyzing said signal during said deflation interval of said inflatable chamber to extract from said signal said blood pressure of said vertebrae according to an oscillometric blood pressure measurement method;
representing whether said vertebrae is a neonate vertebrae;
wherein in response to a positive determination that said vertebrae is a neonate vertebrae, said method completes a blood pressure measurement of said neonate vertebrae by analyzing said signal during said deflation interval[.],
whereby a measurement of said blood pressure of said vertebrae according to an oscillometric blood pressure measurement method is accomplished.

33. (Original) The method of claim 32, wherein said signal analyzed during said deflation interval comprises a signal occurring during at least one step deflation interval.
34. (Canceled)
35. (Previously Presented) The method of claim 32, further comprising reporting at least one of said systolic blood pressure and said diastolic blood pressure.
36. (Canceled)

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- 37. (Canceled)
- 38. (Canceled)
- 39. (Canceled)
- 40. (Canceled)
- 41. (Canceled)
- 42. (Canceled)
- 43. (Canceled)
- 44. (Canceled):
- 45. (Canceled)
- 46. (Canceled)

Claim 47. (Currently Amended) The method of claim 46, An oscillometric blood pressure measurement method, comprising the steps of:

providing an inflatable chamber, said inflatable chamber operable to be inflated during an inflation interval and deflated during a deflation interval;
measuring a signal comprising information indicative of a blood pressure of a vertebrate, said signal generated according to an oscillometric blood pressure measurement method;
analyzing said signal during an inflation of said inflatable chamber at a rate greater than 3 mmHg per second before said inflatable chamber is fully

inflated to extract from said signal a systolic blood pressure and a diastolic blood pressure of said vertebrae; and
if necessary, responsive to a control signal, analyzing said signal during said deflation interval of said inflatable chamber to extract from said signal said blood pressure of said vertebrae according to an oscillometric blood pressure measurement method;
detecting a secondary motion of said vertebrae distinct from said motion comprising information indicative of said blood pressure;
whereby, in the event that said secondary motion is below a predetermined value, said method completes said blood pressure measurement; and
in the event that said value of said secondary motion detected by said motion detector module is at least equal to said predetermined value, analyzing said signal during said deflation interval of said inflatable chamber to extract from said signal said blood pressure of said vertebrae;
representing whether said vertebrae is a neonate vertebrae[.];
wherein in response to a positive determination that said vertebrae is a neonate vertebrae, said method determines said blood pressure of said neonate vertebrae according to an oscillometric blood pressure measurement method.

48. (Original) The method of claim 47, wherein said blood pressure of said neonate vertebrae comprises at least one of a systolic blood pressure and a diastolic blood pressure.

49. (Original) The method of claim 48, further comprising reporting at least one of said systolic blood pressure and said diastolic blood pressure.

50. (Currently Amended) The apparatus of claim 7 [[6]], wherein said neonate sensor module configured to represent whether said vertebrae is a neonate vertebrae comprises a neonate sensor module configured to deduce from a command issued by an operator whether said vertebrae is a neonate vertebrae.

51. (Currently Amended) The apparatus of claim 7 [[6]], wherein said neonate sensor module configured to represent whether said vertebrate is a neonate vertebrate comprises a neonate sensor module configured to deduce from data in a database whether said vertebrate is a neonate vertebrate.
52. (Currently Amended) The apparatus of claim 24 [[23]], wherein said neonate sensor module configured to represent whether said vertebrate is a neonate vertebrate comprises a neonate sensor module configured to deduce from a command issued by an operator whether said vertebrate is a neonate vertebrate.
53. (Currently Amended) The apparatus of claim 24 [[23]], wherein said neonate sensor module configured to represent whether said vertebrate is a neonate vertebrate comprises a neonate sensor module configured to deduce from data in a database whether said vertebrate is a neonate vertebrate.
54. (Currently Amended) The method of claim 32 [[31]], wherein the step of representing whether said vertebrate is a neonate vertebrate comprises the step of an operator issuing a command.
55. (Currently Amended) The method of claim 32 [[31]], wherein the step of representing whether said vertebrate is a neonate vertebrate comprises the step of deducing from data in a database whether said vertebrate is a neonate vertebrate.
56. (Currently Amended) The method of claim 47 [[46]], wherein the step of representing whether said vertebrate is a neonate vertebrate comprises the step of an operator issuing a command.
57. (Currently Amended) The method of claim 47 [[46]], wherein the step of representing

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whether said vertebrate is a neonate vertebrate comprises the step of deducing from data in a database whether said vertebrate is a neonate vertebrate.